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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/725,701	12/02/2003	Zhong Xu	A030 P00747-US2	3415	
3017	7590 03/10/2005		EXAM	EXAMINER	
BARLOW,	JOSEPHS & HOLM	SCHWARTZ,	SCHWARTZ, PAMELA R		
101 DYER S		ART UNIT	PAPER NUMBER		
	CE, RI 02903		1774		
			DATE MAILED: 03/10/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/725,701	XU ET AL.				
		Examiner	Art Unit				
		Pamela R. Schwartz	1774				
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet with t	the correspondence add	dress			
THE I - Exter after - If the - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a report of the provision of the present of the provision of the present of t	1.136(a). In no event, however, may a reply eply within the statutory minimum of thirty (30 od will apply and will expire SIX (6) MONTHS ute, cause the application to become ABAND	y be timely filed 80) days will be considered timely S from the mailing date of this cond DONED (35 U.S.C. § 133).	r. Immunication.			
Status							
1)	Responsive to communication(s) filed on						
·		nis action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) 1-7 is/are pending in the application 4a) Of the above claim(s) is/are withdr Claim(s) is/are allowed. Claim(s) 1-7 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/	rawn from consideration.					
Applicati	on Papers						
_	The specification is objected to by the Examir	ner.					
·	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment	• •						
1) 🔯 Notice 2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sum	mary (PTO-413) fail Date				
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date		mal Patent Application (PTO-	-152)			

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1. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lingier et al. (US2004/0005417) in view of Fukuda et al. (6,677,389).

Lingier et al. disclose an ink jet recording material including a paper or film substrate and an ink receiving layer containing binder and cationic inorganic particles [0029,0035, 0038-0039]. The cationic particles may be silica that has been modified with a cationic resin [0045, 0047, 0048]. The resins may have amino groups or quaternary ammonium groups. The reference discusses formation of a glossy ink receiving layer [0051]. The reference also discloses inclusion a zirconium complexes and plasticizers as known additives [0060,0062]. BACOTE 20®, referred to in the reference, is a zirconium ammonium carbonate salt.

The secondary reference teaches formation of a cationized silica dispersion for use in making ink jet recording paper and other materials (see the abstract). To form the cationized silica, resins including polyethyleneimine and polyvinylamine may be used to treat the silica (see col. 3, lines 32-50). Based upon the disclosure of the primary reference to include silica that has been made cationic by treatment with an organic compound having an amino group or a quaternary ammonium group, it would have been obvious to one of ordinary skill in the art to treat the silica of the primary reference with one of the specific cationic amino group containing resins disclosed for this purpose in the secondary reference in order to render the silica of the primary reference cationic.

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2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pamela Schwartz whose telephone number is (571) 272-1528.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye, can be reached on (571) 272-3186. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRSchwartz March 7, 2005

DRIMARY EXAMINER